

DOW SILICONES TEST REPORT

SCOPE OF WORK

CDPH 01350 Standard Method Version 1.2 on DOWSIL™ 756 SM Building Sealant

REPORT NUMBER

105806919GRR-001a

ISSUE DATE

30-May-2024

REVISION DATE

31-May-2024

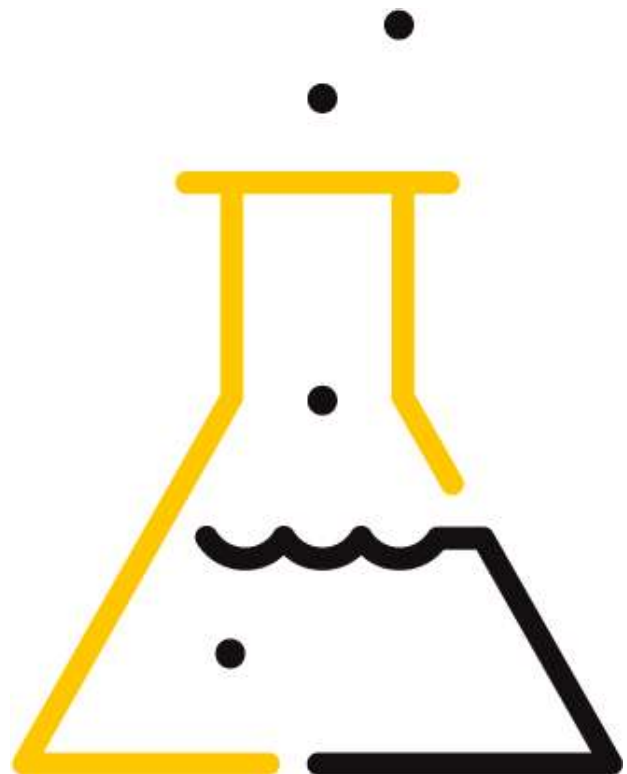
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DOCUMENT CONTROL NUMBER

Per GRVOC-RT-050b (02-April-2024)

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TEST REPORT FOR DOW SILICONES CORPORATION

Report No.: 105806919GRR-001a

Date: 30-May-2024

P.O.: 4516032615

Revision Date: 31-May-2024

SECTION 1

CLIENT INFORMATION

Attention: Kelly Allore
Dow Silicones Corporation
2200 W Salzburg Road
Auburn, MI 48686
Phone: +1 (989) 496-7088
Email: k.allore@dow.com



Logan Albertson
Project Engineer



Lindsay Delamarter
Project Reviewer

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SECTION 2**SUMMARY AND CONCLUSION**

Test Method: Standard Method Version 1.2 for CDPH 01350
Modeling Scenario: Private office (PO), school classroom (SC) and single family residence (R)

CLIENT PROVIDED SAMPLE INFORMATION

Manufacturer / Location: Dow Silicones Corporation / Elizabethtown, KY
Product Name: DOWSIL™ 756 SM Building Sealant
Product Number: Not Specified
Product Description: Silicone sealant
Date of Manufacture: 01-March-2024
Date of Collection: 01-March-2024
Date of Shipment: 08-March-2024

DESCRIPTION OF SAMPLES

Date Received by Lab: 12-March-2024
As Received Sample Condition: Good Condition
Lab Sample ID: GRR2403120005-1
Material Submitted: Eleven (11) tubes of sealant

WORK REQUESTED/APPLICABLE DOCUMENTS

VOC Emissions Analysis: CDPH Standard Method v1.2
Intertek Quote: Qu-01430473

TEST RESULTS**CDPH Standard Method v1.2, Table 4.1**

MODELING SCENARIO	RESULT (PASS/FAIL)
Private Office (PO)	PASS
School Classroom (SC)	PASS
Single Family Residence (R)*	PASS

*Note: The single family residence scenario is not yet a CDPH requirement. It is provided for informational purposes only.

LEED v4 Total Volatile Organic Compounds (TVOC)

MODELING SCENARIO	TVOC (mg m ⁻³)
Private Office (PO)	0.1
School Classroom (SC)	< 0.1
Single Family Residence (R)*	0.1

*Note: The single family residence scenario is not yet a CDPH requirement. It is provided for informational purposes only.

SAMPLE DISPOSITION

At the completion of testing, samples were disposed of in a routine manner.

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SECTION 3**CDPH STANDARD METHOD V1.2**

Date Received:

12-March-2024

Dates Tested:

03-May-2024 to 17-May-2024

ACCEPTANCE CRITERIA:

Referencing:

CDPH Standard Method v1.2, Table 4.1

LEED v4 - Low Emitting Materials

LEED v4 - TVOC Ranges:

 $\leq 0.5 \text{ mg m}^{-3}$ 0.5 to 5.0 mg m^{-3} $\geq 5.0 \text{ mg m}^{-3}$ **TEST NOTES OR DEVIATIONS:**

Testing performed without deviation.

TEST SUMMARY:

The emissions testing was performed according to "Standard Method for the Evaluation of Volatile Organic Chemical Emissions from Indoor Sources using Environmental Chambers Version 1.2". A photograph of the tested sample is included herein. The sample was applied in a 3/8" wide aluminum channel and placed into the test chamber with the top surface exposed. The sample was conditioned outside of the test chamber at $23 \pm 2^\circ\text{C}$ and $50 \pm 10\% \text{ RH}$. Air samples were collected prior to the sample being placed in the test chamber (0 hours) and at 264, 288, and 336 hours after preparation. Samples analyzed for individual VOCs and TVOC were collected on multi-sorbent tubes containing glass wool, Tenax TA 35/60 and Carbograph 5 TD 40/60. These VOC samples were analyzed by thermal desorption-gas chromatography/mass-spectrometry, TD-GC/MS. TVOC was calculated through integration of the chromatogram from n-pentane through n-heptadecane using toluene as a surrogate. Individual VOCs were calculated using calibration curves based on pure standards unless otherwise noted. Samples analyzed for low molecular weight aldehydes were collected on cartridges treated with 2,4-di-nitrophenylhydrazine (DNPH). Low molecular weight aldehydes were analyzed using high performance liquid chromatography, HPLC.

Table 1: Conditioning and test timing

EXPERIMENT PHASE	START DATE	DURATION
Conditioning	03-May-2024	10 Days
Chamber Testing	13-May-2024	4 Days

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RESULTS:**Table 2: Sample and Chamber Conditions during Test Period**

PARAMETER		SYMBOL	VALUE	UNITS
Sample Dimensions	Length	-	0.143	m
	Width	-	0.095	m
	Thickness	-	-	m
Wet Sample Mass		-	19.7	g
Exposed Sample Surface Area		A	0.014	m^2
Chamber Volume		V	0.116	m^3
Chamber Loading Factor		L	0.12	$\text{m}^2 \text{m}^{-3}$
Inlet Air Flow Rate		Q	0.116	$\text{m}^3 \text{h}^{-1}$
Air Change Rate		N_{ACH}	1.00	h^{-1}
Length Specific Flow Rate		q_A	0.81	$\text{m}^2 \text{h}^{-1}$
Chamber Pressure (Range)		P	17.2 (11.8-24.9)	Pa
Average Temperature (Range)		T	22.9 (22.4-23.0)	$^{\circ}\text{C}$
Average Humidity (Range)		RH	50.0 (47.8-52.7)	% RH
Testing Duration		t	336	h

Table 3: Test chamber background VOC concentrations in $\mu\text{g m}^{-3}$.

COMPOUND	CAS No.	C_{i0}
Formaldehyde	50-00-0	< 0.6
TVOC	-	< 20

Table 4: Test chamber TVOC and formaldehyde concentrations in $\mu\text{g m}^{-3}$.

COMPOUND	CAS No.	264 H	288 H	336 H
Formaldehyde	50-00-0	0.8	0.8	0.7
TVOC	-	504	477	350

Table 5: Test chamber TVOC and formaldehyde emission factors in $\mu\text{g m}^{-1} \text{h}^{-1}$.

COMPOUND	CAS No.	264 H	288 H	336 H
Formaldehyde	50-00-0	0.6	0.6	< 0.5
TVOC	-	407	385	283

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Individual emitted VOCs identified above the lower limits of quantitation are listed in Table 6; VOCs which are listed on chemical of concern lists or have CRELs are indicated.

The measured chamber concentrations and corresponding emission factors of identified individual VOCs and TVOCs are listed in Table 7.

In Tables 5, 7 and 8, emission factors were calculated using equation 3.1 in CDPH Standard Method V1.2:

$$EF_{Ai} = \frac{Q \times (C_{it} - C_{i0})}{A_c}$$

The inlet flow rate, Q ($\text{m}^3 \text{h}^{-1}$), is the measured flow rate of air into the chamber. The chamber concentration, C_{it} ($\mu\text{g m}^{-3}$), is the concentration of a target VOC_i, formaldehyde and other carbonyl compounds measured at time t . The chamber background concentration, C_{i0} ($\mu\text{g m}^{-3}$), is the corresponding concentration measured with the chamber operating without a test specimen. The exposed surface length of the test specimen in the chamber, A_c (m), is determined from the measurements made at the time of specimen preparation.

Table 6: VOCs detected above lower limits of quantitation in air samples at 336 hours.

VOC	CAS No.	SURROGATE ¹	CREL ² ($\mu\text{g m}^{-3}$)	CARB TAC ³	PROP 65 LIST ⁴
Formaldehyde	50-00-0	No	9	Yes	Yes
Isopropyl Alcohol	67-63-0	No	7000	No	No
2-Propanone, 1-methoxy-	5878-19-3	Yes	-	No	No
2-Propanol, 2-methyl-	75-65-0	Yes	-	No	No
Methyl acetoacetate	105-45-3	Yes	-	No	No
Cyclotetrasiloxane, octamethyl-	556-67-2	Yes	-	No	No
2,4,6-Trimethyl-2,4,6-trivinyl- 1,3,5,2,4,6-trioxatrisilinane	3901-77-7	Yes	-	No	No
Cyclopentasiloxane, decamethyl-	541-02-6	Yes	-	No	No
Cyclohexasiloxane, dodecamethyl-	540-97-6	Yes	-	No	No
Cycloheptasiloxane, tetradecamethyl-	107-50-6	Yes	-	No	No
Unknown Compound	-	-	-	-	-

¹Indicates which non-listed VOCs were quantified using surrogate compounds, all other compounds were quantified using pure compounds.

²Chronic Reference Exposure Level (CREL) as defined by California Office of Environmental Health Hazard Assessment.

³Substance is listed on California Air Resource Board's (CARB) Toxic Air Contaminant (TAC) identification list.

⁴Substance known to the state of California to cause cancer or reproductive toxicity according to California's Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65).

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Table 7: Measured chamber concentrations and corresponding emission factors of individual VOCs listed in Table 4-1 of CDPH 01350 V1.2. at 336 hours.

VOC	CAS No.	CHAMBER CONCENTRATION ($\mu\text{g m}^{-3}$)	EMISSION FACTOR ($\mu\text{g m}^{-1} \text{h}^{-1}$)
Formaldehyde	50-00-0	0.7	< 0.5
Acetaldehyde	75-07-0	< 3.9	< 3.2
Vinyl acetate	108-05-4	< 0.8	< 0.6
Epichlorohydrin	106-89-8	< 0.4	< 0.3
Ethanol, 2-methoxy-, acetate	110-49-6	< 1.0	< 0.8
Isopropyl Alcohol	67-63-0	5.4	4.4
Ethene, 1,1-dichloro-	75-35-4	< 0.3	< 0.2
Methylene chloride	75-09-2	< 0.3	< 0.2
Carbon disulfide	75-15-0	< 0.5	< 0.4
Methyl tert-butyl ether	1634-04-4	< 0.4	< 0.3
n-Hexane	110-54-3	< 0.3	< 0.2
Trichloromethane (Chloroform)	67-66-3	< 0.3	< 0.2
Ethanol, 2-methoxy-	109-86-4	< 0.6	< 0.4
Ethane, 1,1,1-trichloro-	71-55-6	< 0.3	< 0.2
Benzene	71-43-2	< 0.3	< 0.2
Carbon Tetrachloride	56-23-5	< 0.3	< 0.2
2-Propanol, 1-methoxy-	107-98-2	< 0.4	< 0.3
Ethylene glycol	107-21-1	< 40.0	< 32.4
Trichloroethylene	79-01-6	< 0.3	< 0.2
1,4-Dioxane	123-91-1	< 0.3	< 0.2
Ethanol, 2-ethoxy-	110-80-5	< 0.4	< 0.4
Toluene	108-88-3	< 0.3	< 0.2
Formamide, N,N-dimethyl-	68-12-2	< 0.9	< 0.7
Tetrachloroethylene	127-18-4	< 0.3	< 0.2
Benzene, chloro-	108-90-7	< 0.3	< 0.2
Ethylbenzene	100-41-4	< 0.3	< 0.2
Xylene (-m, -p, & -o)	108-38-3, 95-47-6, 106-42-3	< 0.4	< 0.3
Styrene	100-42-5	< 0.3	< 0.2
2-Ethoxyethyl acetate	111-15-9	< 0.8	< 0.6
Phenol	108-95-2	< 0.6	< 0.5
Benzene, 1,4-dichloro-	106-46-7	< 0.3	< 0.2
Isophorone	78-59-1	< 0.6	< 0.5
Naphthalene	91-20-3	< 0.5	< 0.4

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Table 8: Measured chamber concentrations and corresponding emission factors of identified non-listed individual VOCs and TVOC at 336 hours.

VOC	CAS No.	CHAMBER CONCENTRATION ($\mu\text{g m}^{-3}$)	EMISSION FACTOR ($\mu\text{g m}^{-1} \text{h}^{-1}$)
2-Propanone, 1-methoxy-	5878-19-3	9.4	7.6
2-Propanol, 2-methyl-	75-65-0	31.8	25.8
Methyl acetoacetate	105-45-3	202	164
Cyclotetrasiloxane, octamethyl-	556-67-2	13.0	10.6
2,4,6-Trimethyl-2,4,6-trivinyl- 1,3,5,2,4,6-trioxatrisilane	3901-77-7	8.4	6.8
Cyclopentasiloxane, decamethyl-	541-02-6	25.1	20.3
Cyclohexasiloxane, dodecamethyl-	540-97-6	16.2	13.2
Cycloheptasiloxane, tetradecamethyl-	107-50-6	3.5	2.9
Unknown Compound	-	15.1	12.3
TVOC	-	350	283

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Exposure Scenario Modeling and Evaluation:

Estimated building concentrations for the listed scenarios were calculated using equation 3.2a of CDPH Standard Method V1.2:

$$C_{Bi} = \frac{EF_{Ai} \times A_B}{Q_B}$$

The area specific emission rate EF_A at 336 hours (14 days) total exposure time is multiplied by the ratio of the exposed length of the installed material in the building, A_B (m), to the flow rate of outside ventilation air, Q_B ($\text{m}^3 \text{h}^{-1}$).

The modeling parameters used for the given scenarios are listed in Table 9. The modeled concentrations of identified individual VOCs are listed in Tables 10 & 11. Whether the modeled concentrations meet the maximum allowable concentration requirements specified in Table 4.1 of CDPH Standard Method V1.2 are also indicated.

Table 9: Standard modeling parameters for general purpose sealants.

PARAMETER	SYMBOL	VALUE	UNITS
Exposed Surface length Installed in <i>Private Office (PO)</i>	A_B	4.88	m
Air flow rate of <i>Private Office (PO)</i>	Q_B	20.7	$\text{m}^3 \text{h}^{-1}$
Exposed Surface length Installed in <i>Classroom (SC)</i>	A_B	12.2	m
Air flow rate of <i>Classroom (SC)</i>	Q_B	191	$\text{m}^3 \text{h}^{-1}$
Exposed Surface length Installed in <i>Residence (R)</i>	A_B	33.1	m
Air flow rate of <i>Residence (R)</i>	Q_B	127	$\text{m}^3 \text{h}^{-1}$

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Table 10: Modeled concentrations of individual VOCs specified in Table 4-1 of CDPH 01350 V1.2.

VOC	CAS NO.	MODELED CONCENTRATION ($\mu\text{g m}^{-3}$)			CONC. LIMIT ($\mu\text{g m}^{-3}$)	RESULT Pass (P) /Fail (F)		
		PO	SC	R		PO	SC	R
Formaldehyde	50-00-0	< 0.1	< 0.1	< 0.1	9	P	P	P
Acetaldehyde	75-07-0	< 0.7	< 0.2	< 0.8	70	P	P	P
Vinyl acetate	108-05-4	< 0.1	< 0.1	< 0.2	100	P	P	P
Epichlorohydrin	106-89-8	< 0.1	< 0.1	< 0.1	1.5	P	P	P
Ethanol, 2-methoxy-, acetate	110-49-6	< 0.2	< 0.1	< 0.2	45	P	P	P
Isopropyl Alcohol	67-63-0	1.0	0.3	1.0	3,500	P	P	P
Ethene, 1,1-dichloro-	75-35-4	< 0.1	< 0.1	< 0.1	35	P	P	P
Methylene chloride	75-09-2	< 0.1	< 0.1	< 0.1	200	P	P	P
Carbon disulfide	75-15-0	< 0.1	< 0.1	< 0.1	400	P	P	P
Methyl tert-butyl ether	1634-04-4	< 0.1	< 0.1	< 0.1	4,000	P	P	P
n-Hexane	110-54-3	< 0.1	< 0.1	< 0.1	3,500	P	P	P
Trichloromethane (Chloroform)	67-66-3	< 0.1	< 0.1	< 0.1	150	P	P	P
Ethanol, 2-methoxy-	109-86-4	< 0.1	< 0.1	< 0.1	30	P	P	P
Ethane, 1,1,1-trichloro-	71-55-6	< 0.1	< 0.1	< 0.1	500	P	P	P
Benzene	71-43-2	< 0.1	< 0.1	< 0.1	1.5	P	P	P
Carbon Tetrachloride	56-23-5	< 0.1	< 0.1	< 0.1	20	P	P	P
2-Propanol, 1-methoxy-	107-98-2	< 0.1	< 0.1	< 0.1	3,500	P	P	P
Ethylene glycol	107-21-1	< 7.6	< 2.1	< 8.5	200	P	P	P
Trichloroethylene	79-01-6	< 0.1	< 0.1	< 0.1	300	P	P	P
1,4-Dioxane	123-91-1	< 0.1	< 0.1	< 0.1	1,500	P	P	P
Ethanol, 2-ethoxy-	110-80-5	< 0.1	< 0.1	< 0.1	35	P	P	P
Toluene	108-88-3	< 0.1	< 0.1	< 0.1	150	P	P	P
Formamide, N,N-dimethyl-	68-12-2	< 0.2	< 0.1	< 0.2	40	P	P	P
Tetrachloroethylene	127-18-4	< 0.1	< 0.1	< 0.1	17.5	P	P	P
Benzene, chloro-	108-90-7	< 0.1	< 0.1	< 0.1	500	P	P	P
Ethylbenzene	100-41-4	< 0.1	< 0.1	< 0.1	1,000	P	P	P
Xylene (-m, -p, & -o)	108-38-3, 95-47-6, 106-42-3	< 0.1	< 0.1	< 0.1	350	P	P	P
Styrene	100-42-5	< 0.1	< 0.1	< 0.1	450	P	P	P
2-Ethoxyethyl acetate	111-15-9	< 0.2	< 0.1	< 0.2	150	P	P	P
Phenol	108-95-2	< 0.1	< 0.1	< 0.1	100	P	P	P
Benzene, 1,4-dichloro-	106-46-7	< 0.1	< 0.1	< 0.1	400	P	P	P
Isophorone	78-59-1	< 0.1	< 0.1	< 0.1	1,000	P	P	P
Naphthalene	91-20-3	< 0.1	< 0.1	< 0.1	4.5	P	P	P

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Table 11: Modeled concentrations of identified non-listed individual VOCs.

VOC	CAS NO.	MODELED CONCENTRATION ($\mu\text{g m}^{-3}$)		
		PO	SC	R
2-Propanone, 1-methoxy-	5878-19-3	1.8	0.5	2.0
2-Propanol, 2-methyl-	75-65-0	6.1	1.6	6.7
Methyl acetoacetate	105-45-3	38.6	10.4	42.6
Cyclotetrasiloxane, octamethyl-	556-67-2	2.5	0.7	2.8
2,4,6-Trimethyl-2,4,6-trivinyl-1,3,5,2,4,6-trioxatrisilinane	3901-77-7	1.6	0.4	1.8
Cyclopentasiloxane, decamethyl-	541-02-6	4.8	1.3	5.3
Cyclohexasiloxane, dodecamethyl-	540-97-6	3.1	0.8	3.4
Cycloheptasiloxane, tetradecamethyl-	107-50-6	0.7	0.2	0.7
Unknown Compound	-	2.9	0.8	3.2
TVOC _{Toluene}	-	66.6	18.1	73.7

PHOTOGRAPHS:

Figure 1: Photograph of sample in test chamber.

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SECTION 4**FACILITIES AND EQUIPMENT:****GCMS**

INSTRUMENTATION USED:

Markes TD-100xr Thermal
Desorption

Agilent 7890A GC

Agilent 5975C MS

COLUMN USED:

AGILENT ULTRA 2 (GC)

HPLC

INSTRUMENTATION USED:

Agilent 1260 Infinity Series

COLUMN USED:

Poroshell 120 EC-C18

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SECTION 5**CLIENT PROVIDED CHAIN OF CUSTODY**

	Ship To:	Chain of Custody for Chemical Testing		
	Attn: VOC Laboratory 4700 Broadmoor Ave SE Suite 200 Kentwood, MI 49512 Phone: 616-656-7401	Intertek Quotation Number: 01430473-0 Purchase Order (enter Company and Number): Dow Silicones PO 4515800822		
Customer Information		Shipping Details		
Company: Dow Silicones Corp.		Packed & Shipped By: <i>Cody Santo</i>		
Street Address: 2200 W. Salzburg Rd		Shipping Date: 3/8/2024		
City/State/Postal code: Auburn, MI 48611		Carrier/Airbill Number: <i>UPS</i>		
Country: US		Requested Testing		
Contact Name & Title (for reporting): Kelly Allore TS&D Technician		Test to be performed: CDPH v1.2		
Contact Phone/Fax Numbers: 989-496-7088		Customer Request for Certification		
Contact E-mail Address: k.allore@dow.com		Clean Air Silver™ Certification: ☐ YES		
Financially Responsible Co.:		Clean Air Gold™ Certification: ☐ YES		
Manufacturer Information (If Different)		Special Customer Instructions		
Company: Dow Silicones Corp.				
City/State/Country: Elizabethtown, KY USA				
Contact Name/Title: Jenn Kamara, TS&D		Customer Authorizes Laboratory to Submit Copies of Test Reports To:		
Phone Number/E-mail Address: 512-968-6046/jkamara@dow.com		Contact:		
		Email Address:		
		Organization:		
		Contact:		
		Email Address:		
		Organization:		
Sample Details		Intertek Use Only		
Product Commercial Name*: DOWSIL™ 756 SM Building Sealant		Condition of Shipping Package: <i>GOOD CONDITION</i>		
Product Commercial Part No.(if not part of the name)*:		Condition of Sample: <i>GOOD CONDITION</i>		
Manufacturer Sample Tracking ID:		Sample ID: <i>GRR 2403120005-1</i>		
Date Manufactured*: 3/1/2024 - 3/2/2024		GIN: G105806919		
Product Category & Use*:		*Indicates required field		
Sample Construction Materials*:				
Plant Name & Location*: Dow Silicones				
Collection Location within Plant:				
Date & Time Collected*: 3/1/2024 - 3/2/2024				
Number of Sample Pieces*: 11				
Sample Collected by*: Emily Marquess				
Phone/Fax Numbers*: 270-706-8112				
E-mail Address*: emarquess@dow.com				
Sample Handling*				
	Printed Name*	Signature*	Date*	Company*
Relinquished By:	<i>Cody Santo</i>	<i>[Signature]</i>	3/8/2024	Dow
Received by:	<i>LOGAN ALBERTSON</i>	<i>[Signature]</i>	3-12-24	INTERTEK

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SECTION 6**REVISIONS MADE TO TEST REPORT**

INDEX	DATE	REVISION DESCRIPTION	REVISED BY	REVIEWED BY
1	31-May-2024	Revised the product name.	Logan Albertson 	Lindsay Delamarter 